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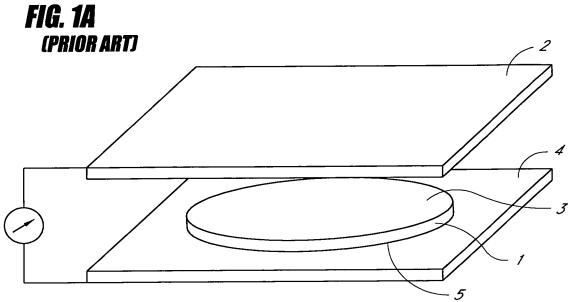
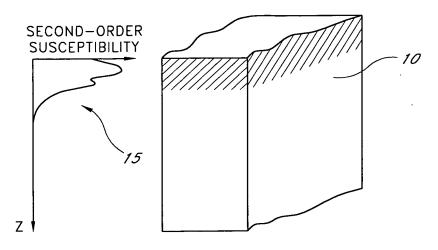


FIG. 1B (PRIOR ART)



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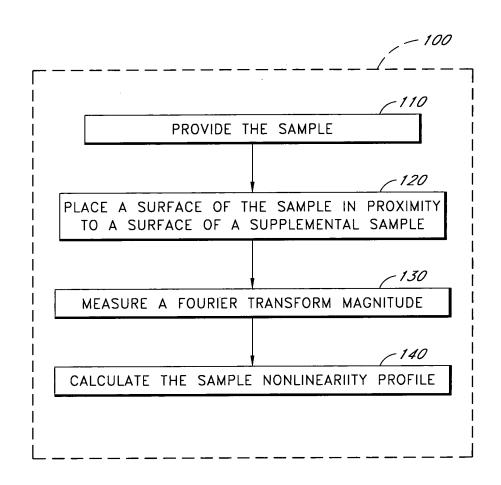
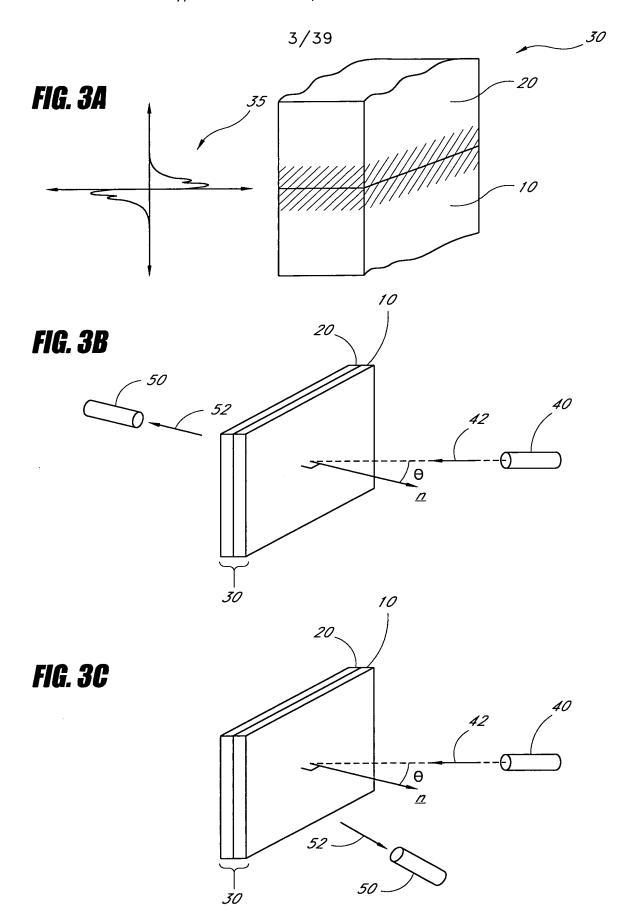
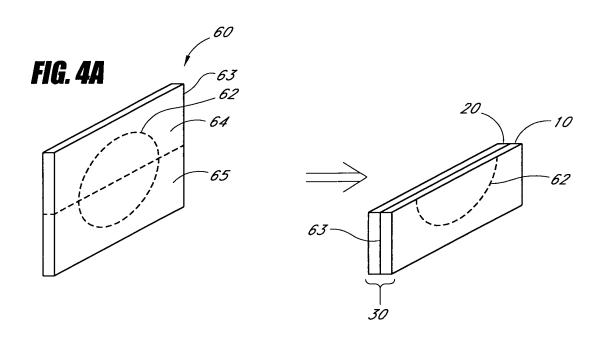


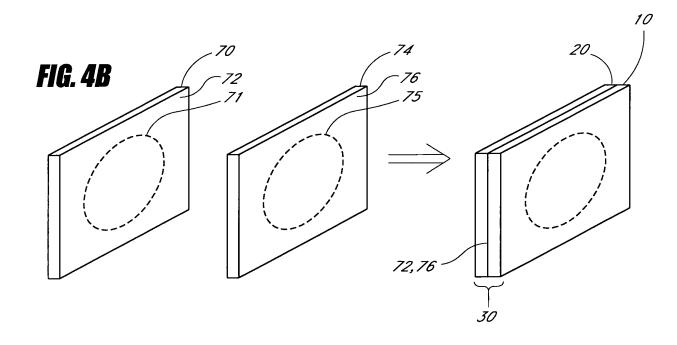
FIG. 2



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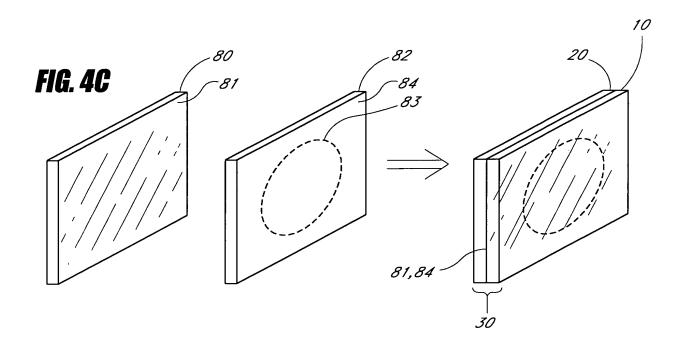
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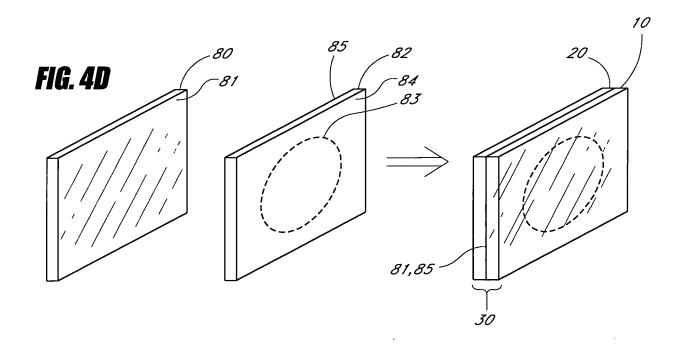
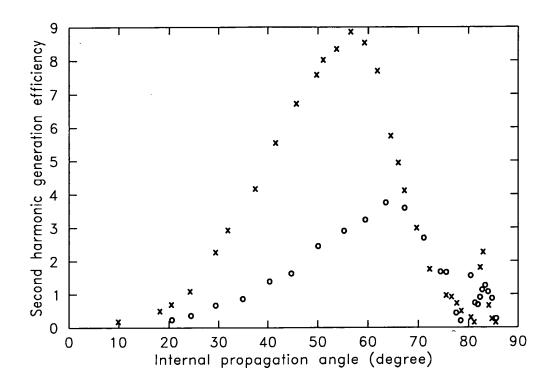
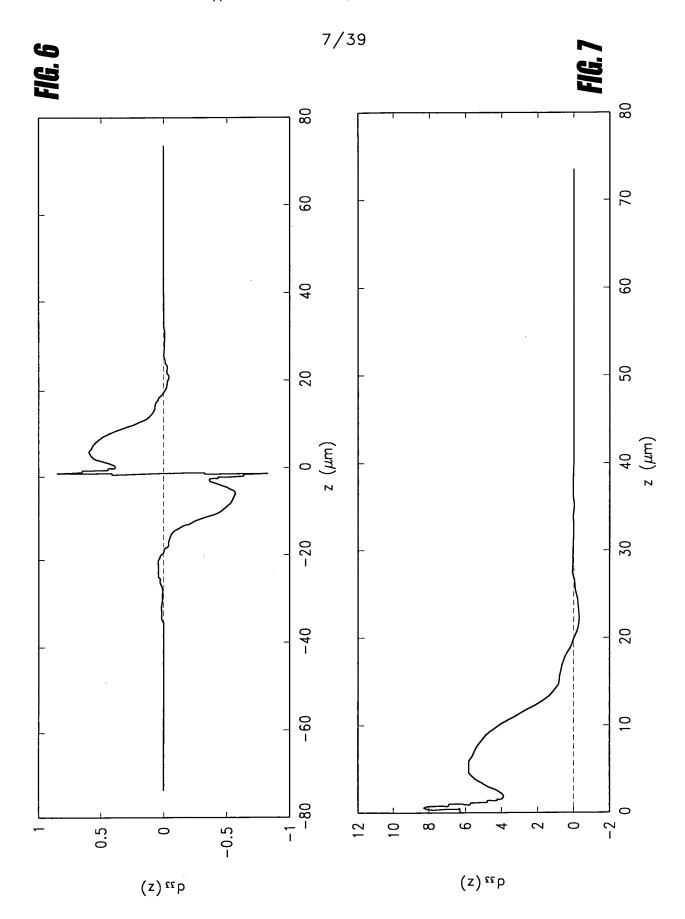


FIG. 5





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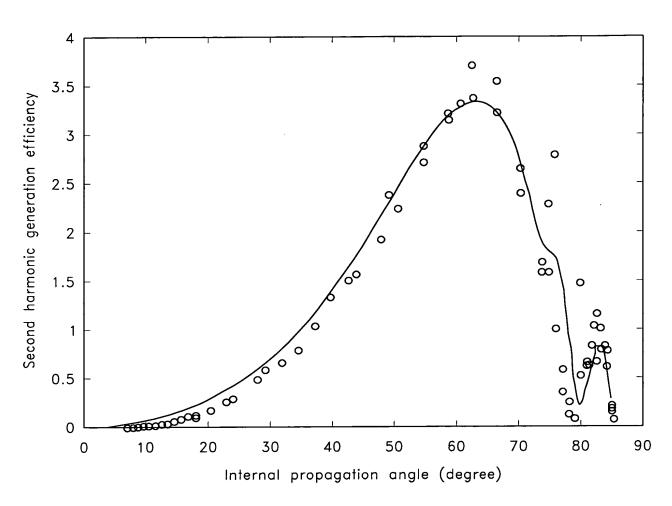
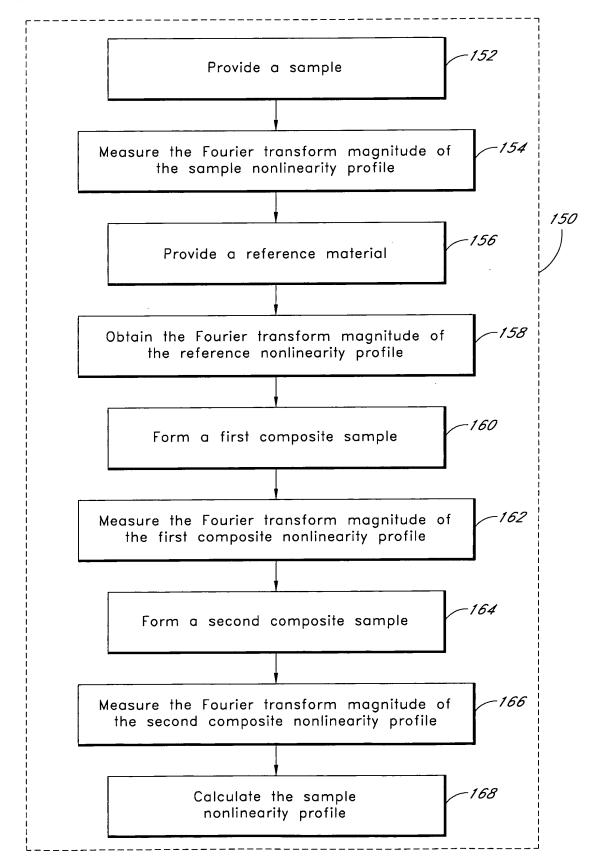
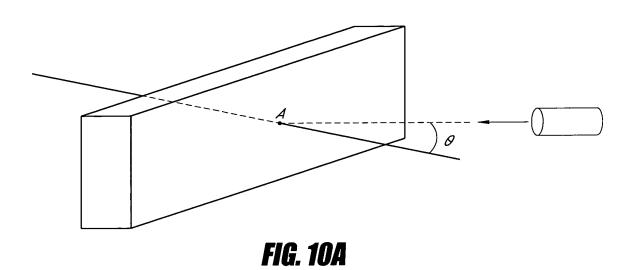
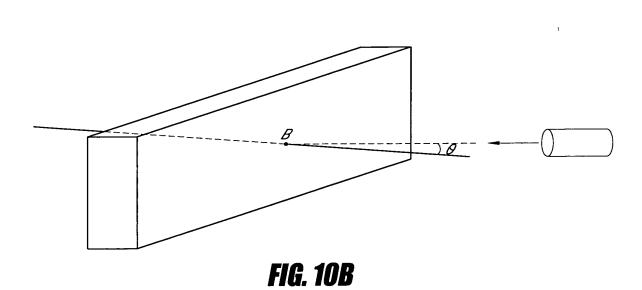


FIG. 8

FIG. 9







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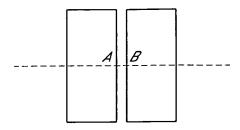


FIG. 11A

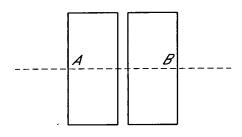


FIG. 11B

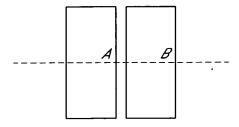


FIG. 11C

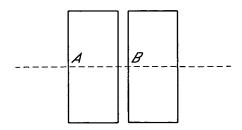
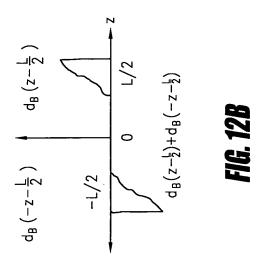
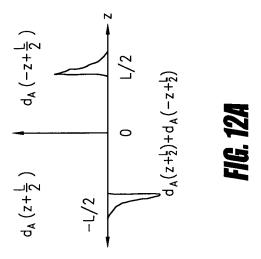
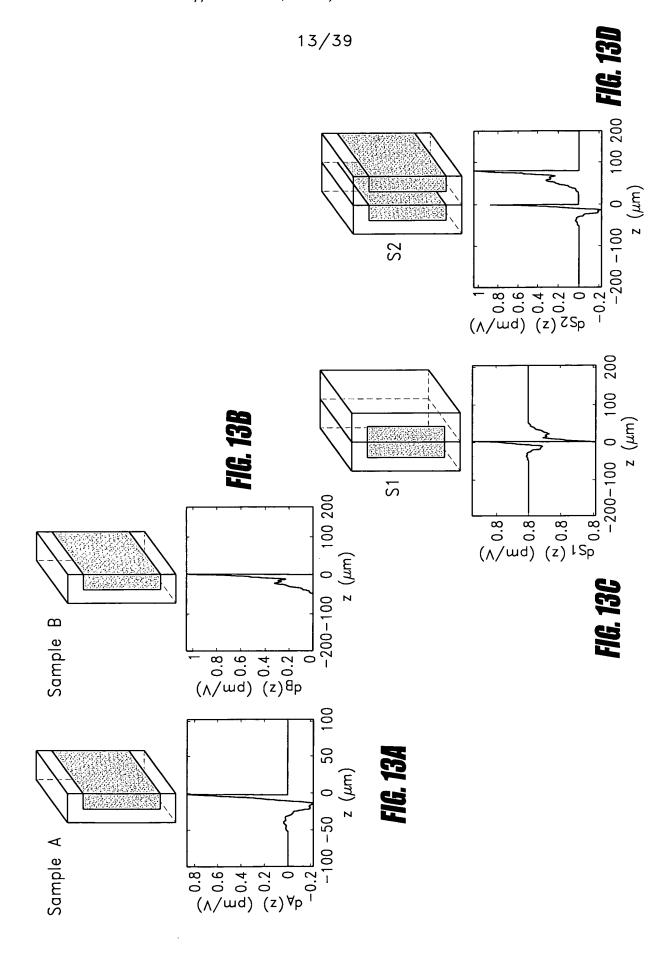


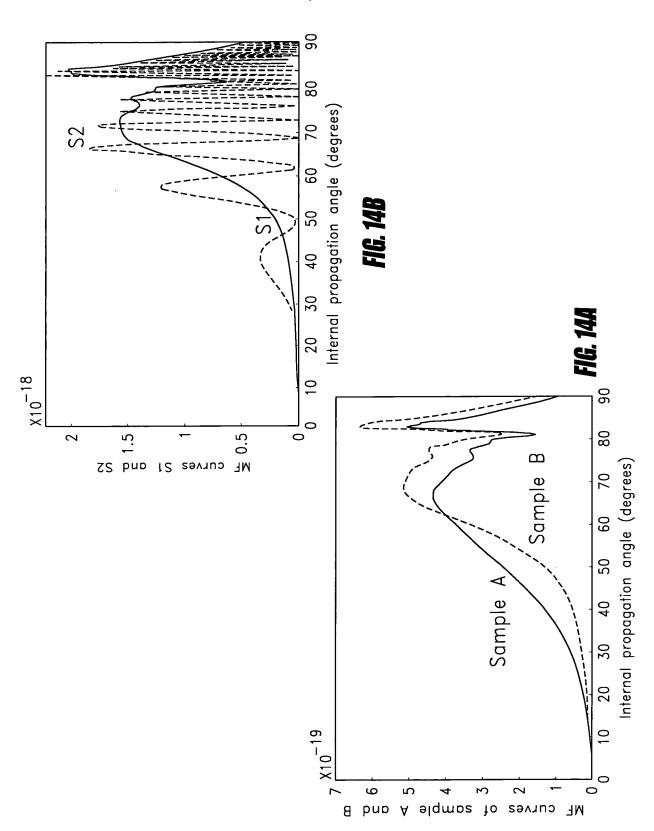
FIG. 11D

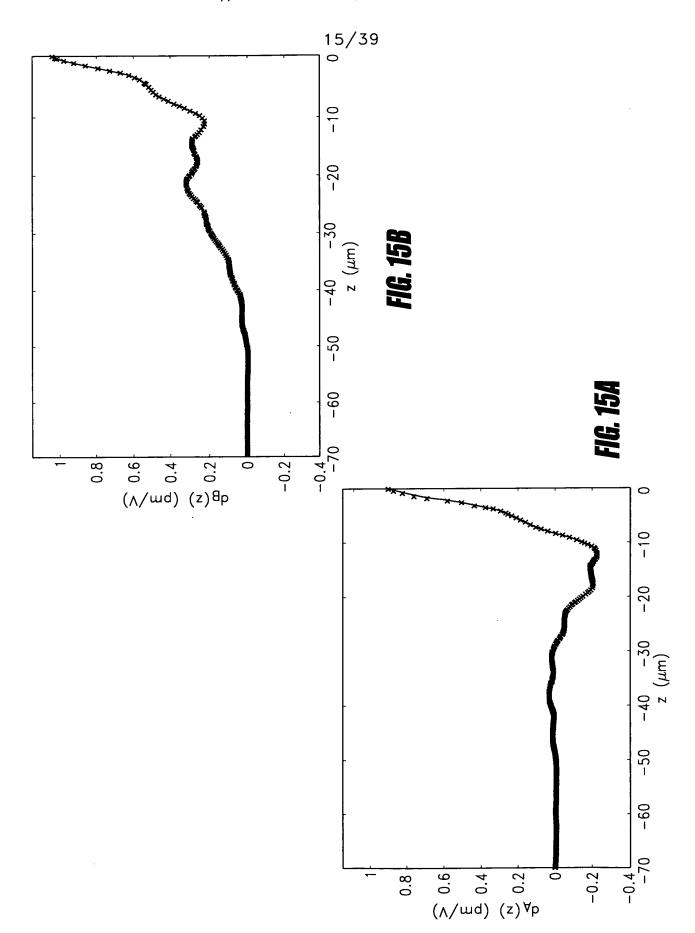




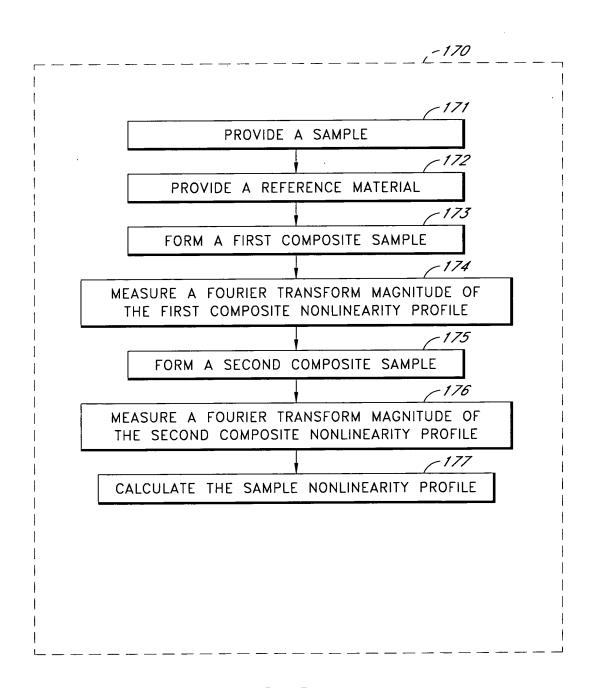








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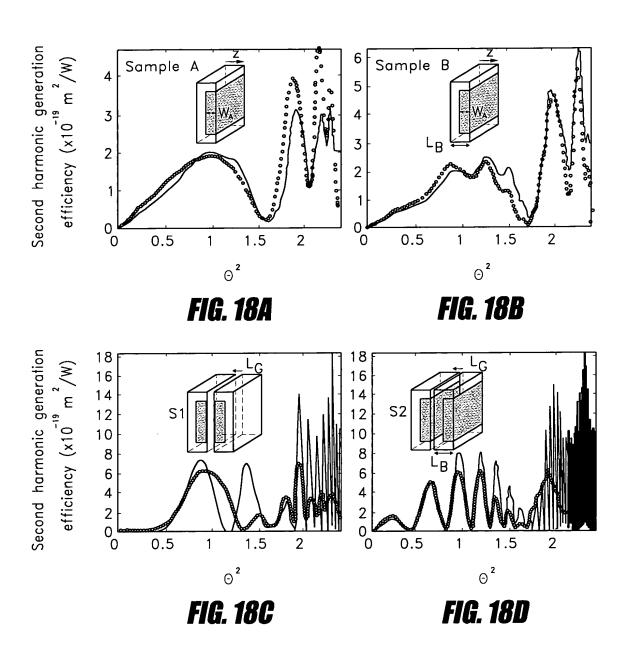
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CALCULATE AN INVERSE FOURIER TRANSFORM OF THE DIFFERENCE BETWEEN THE FOURIER TRANSFORM MAGNITUDES OF THE FIRST AND SECOND COMPOSITE NONLINEARITY PROFILES SEPARATE THE INVERSE FOURIER TRANSFORM INTO A FIRST CONVOLUTION FUNCTION AND A SECOND CONVOLUTION FUNCTION -180 CALCULATE THE FOURIER TRANSFORMS OF THE FIRST CONVOLUTION FUNCTION AND THE SECOND CONVOLUTION **FUNCTION** -181 CALCULATE THE PHASE AND AMPLITUDE OF THE FOURIER TRANSFORM OF THE SAMPLE NONLINEARITY **PROFILE** -182 CALCULATE THE INVERSE FOURIER TRANSFORM OF THE FOURIER TRANSFORM OF THE SAMPLE NONLINEARITY **PROFILE**

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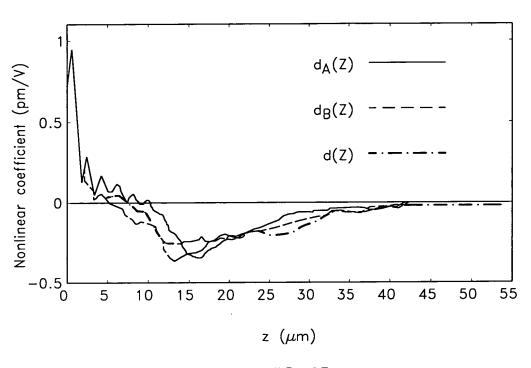


FIG. 19

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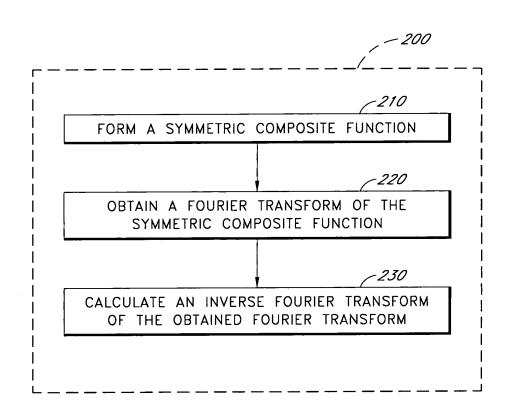


FIG. 20

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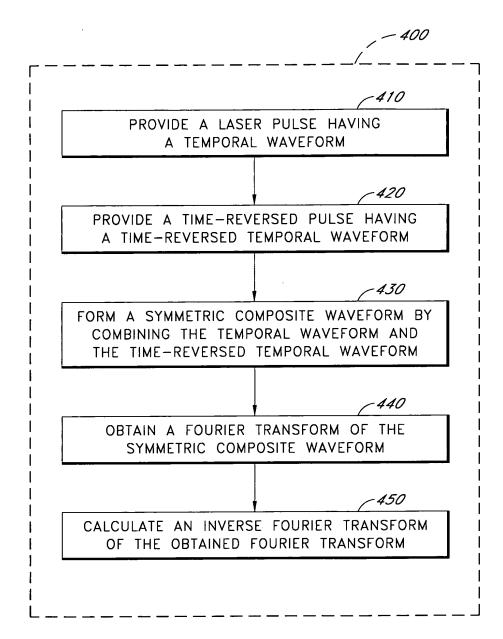
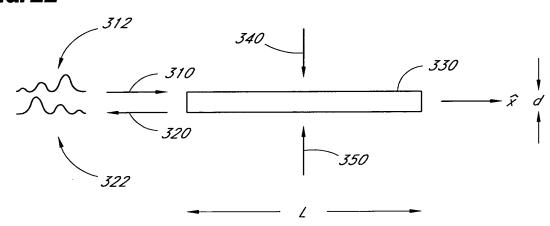


FIG. 21

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FIG. 22



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FIG. 23A

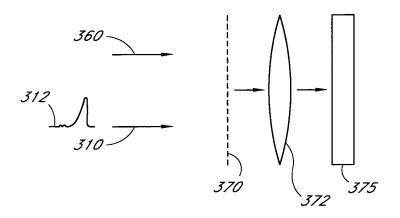
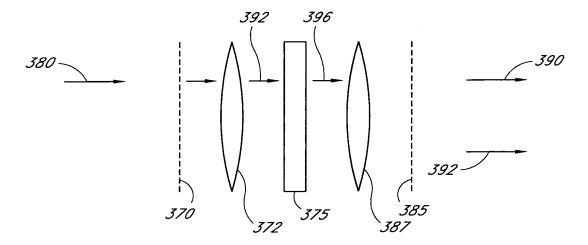
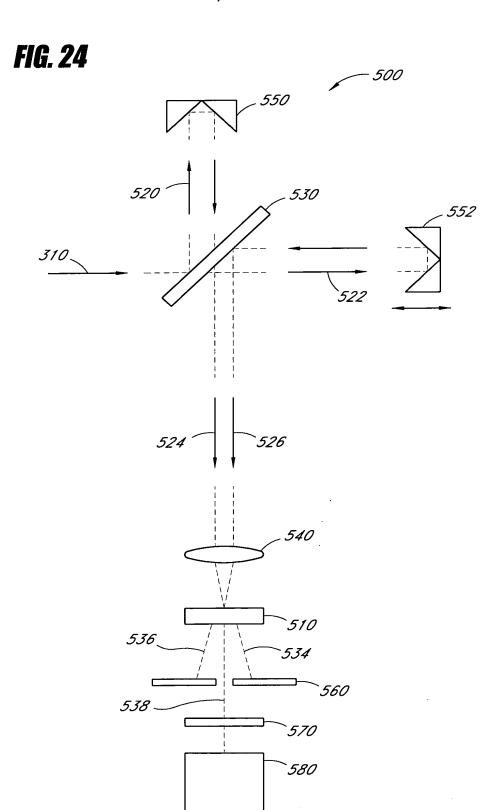
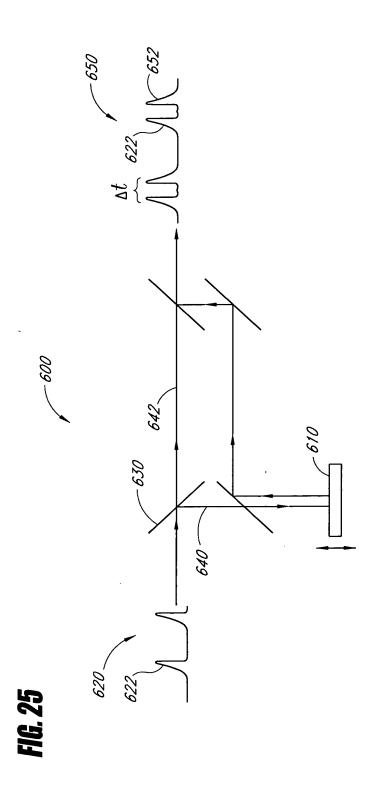


FIG. 23B







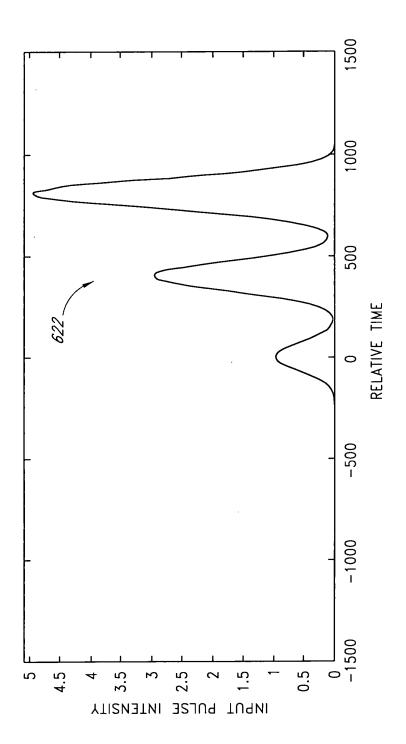
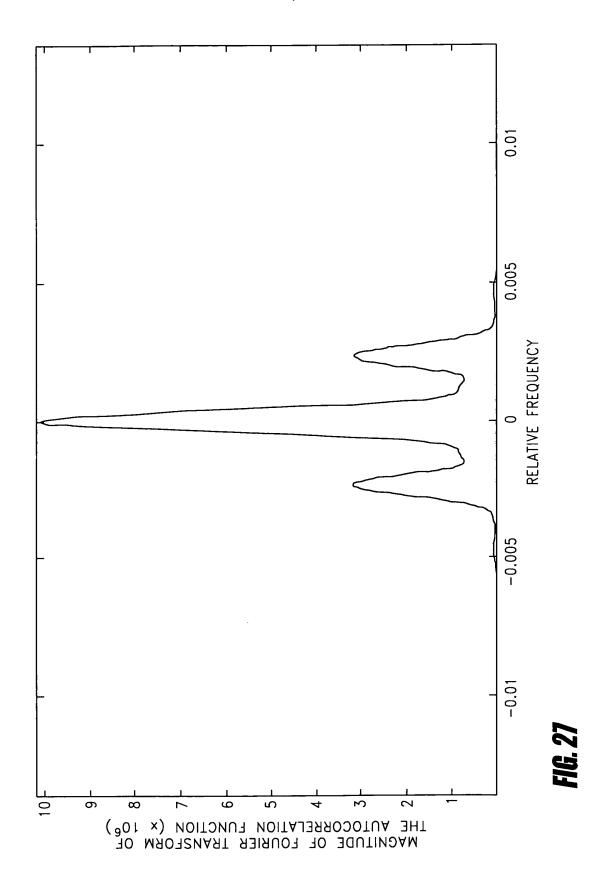
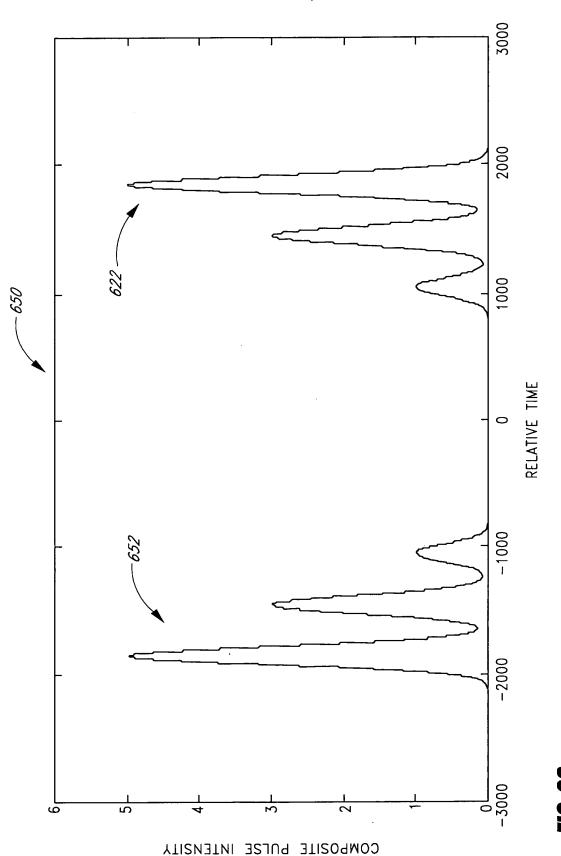


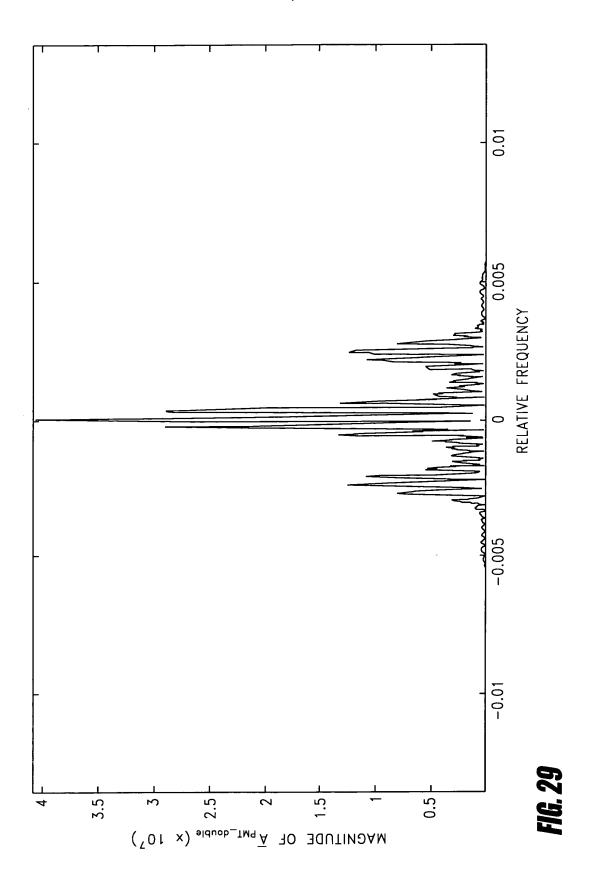
FIG. 26

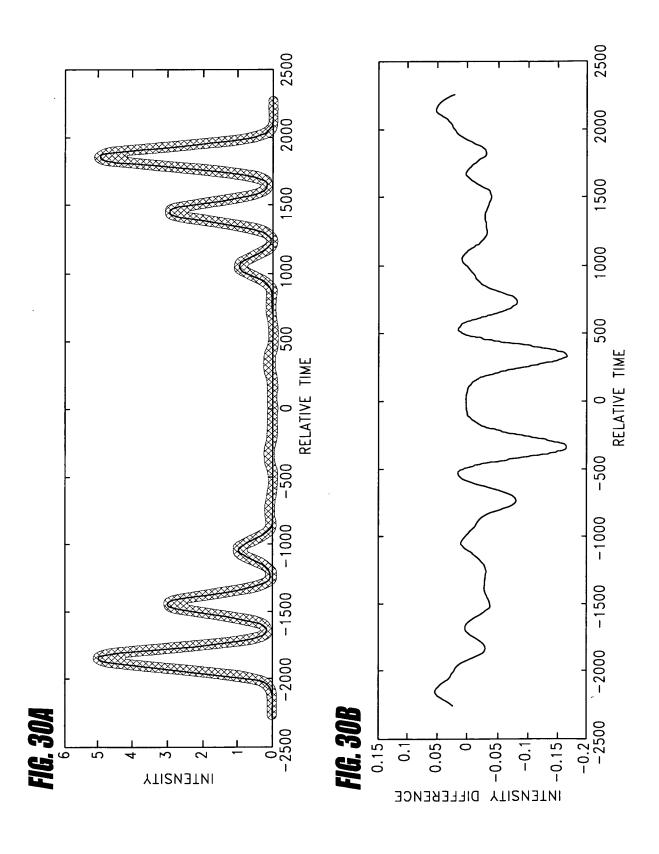






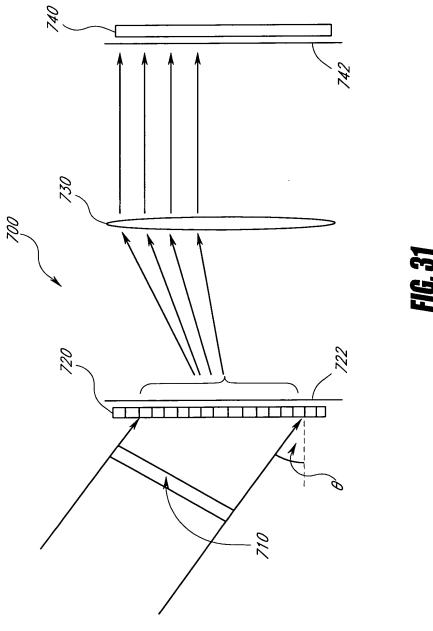


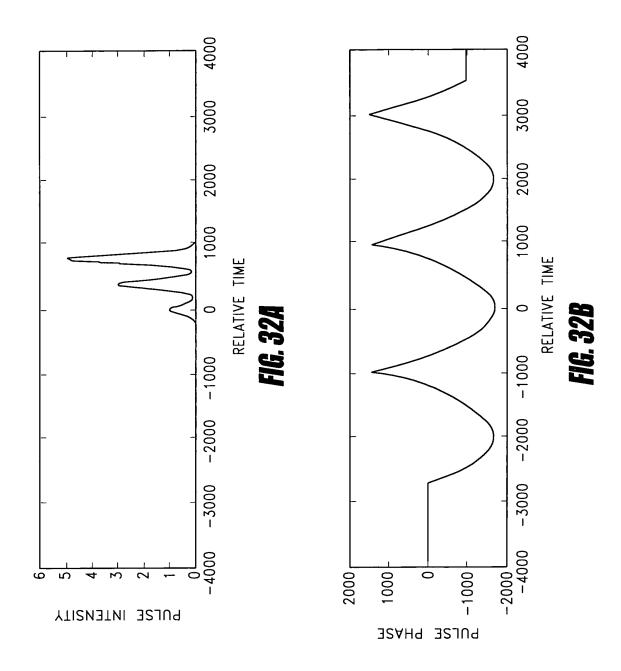


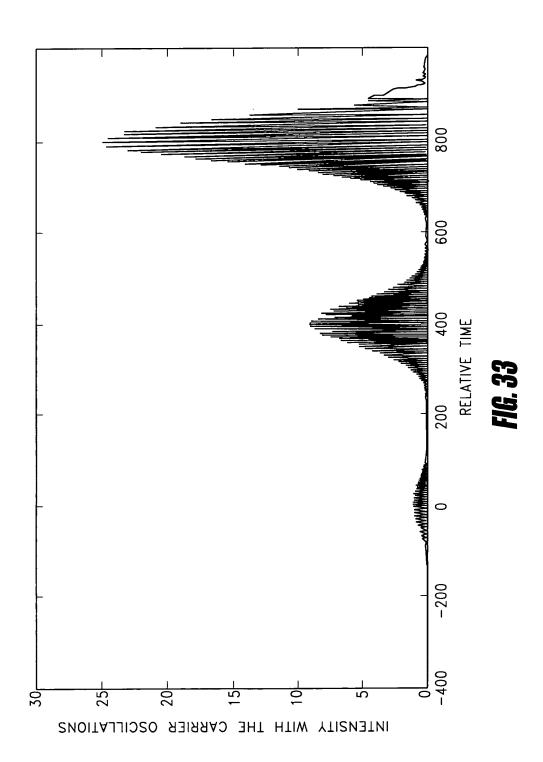


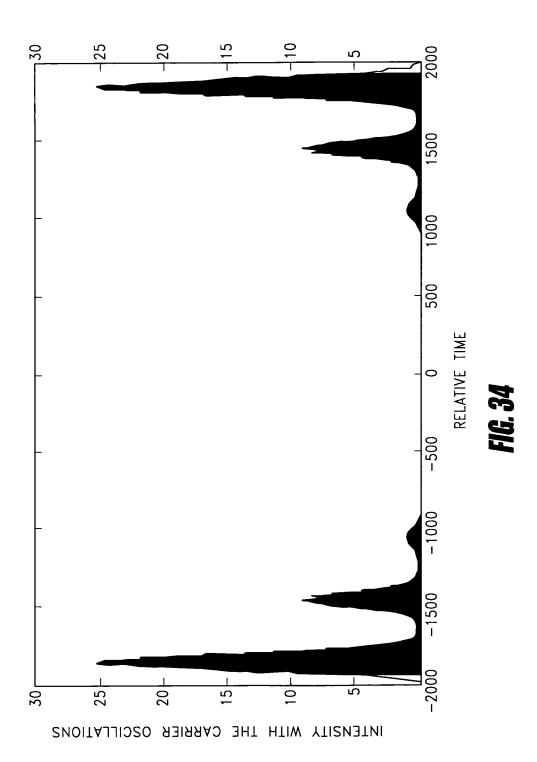
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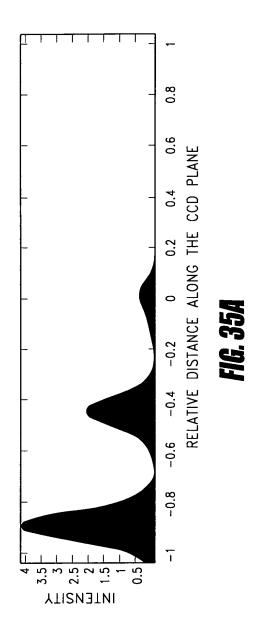








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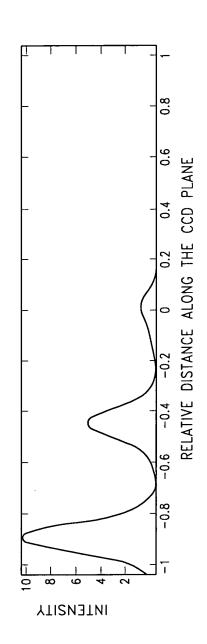
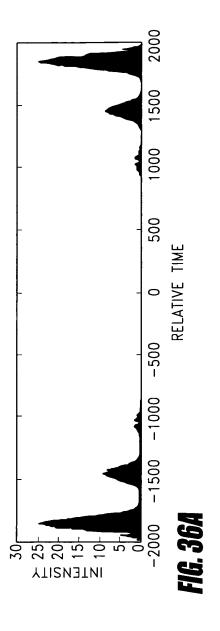
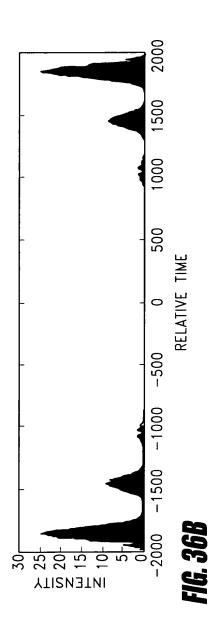
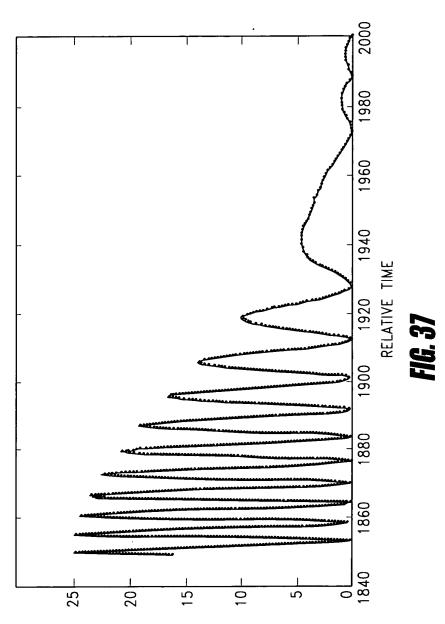


FIG. 35B





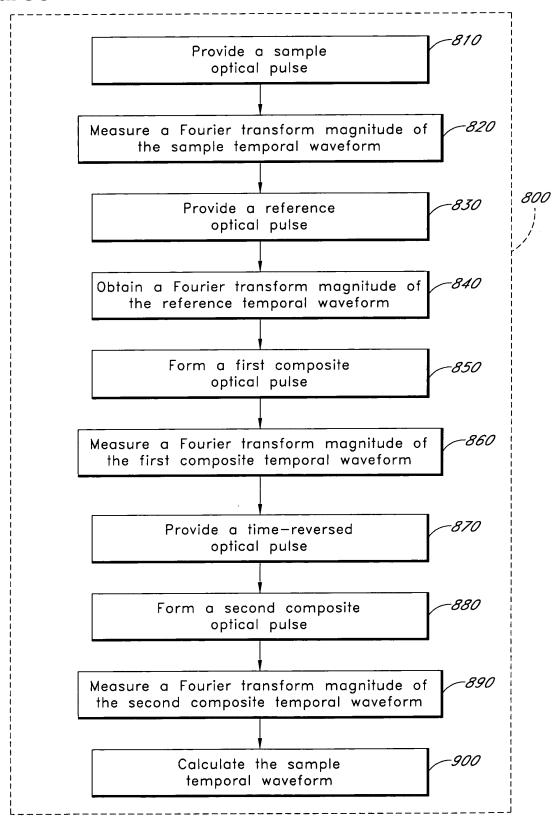


SIGNAL AMPLITUDE WITH CARRIER FREQUENCY

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FIG. 38



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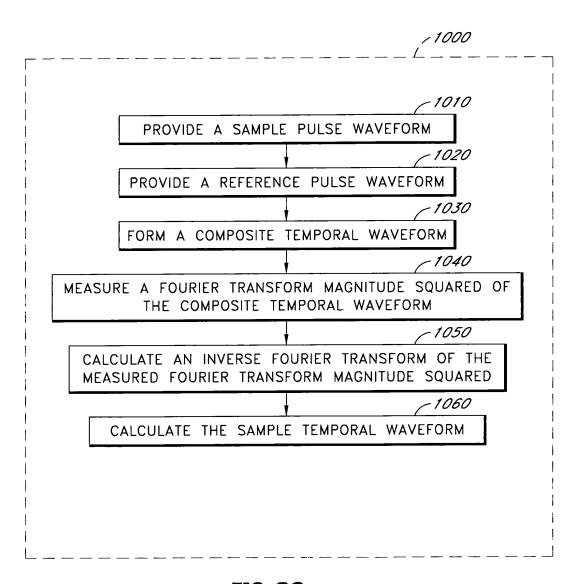


FIG. 39